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Supporting Data FY 2008 Global War on Terror Budget Estimate
Submission – February 2007

DESCRIPTIVE SUMMARIES OF THE



**RESEARCH, DEVELOPMENT, TEST AND EVALUATION
ARMY APPROPRIATION**

Department of the Army
Office of the Secretary of the Army (Financial Management and Comptroller)

Persuasive in Peace, Invincible in War

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**DESCRIPTIVE SUMMARIES FOR PROGRAM ELEMENTS
OF THE
RESEARCH, DEVELOPMENT, TEST AND
EVALUATION, ARMY
FY 2008
GLOBAL WAR ON TERROR
BUDGET ESTIMATE SUBMISSION
FEBRUARY 2007**

**Department of the Army
Office of the Assistant Secretary of the Army (Financial Management and Comptroller)**

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UNCLASSIFIED
Department of the Army
FY 2007 RDT&E Program
GWOT Budget Estimate
Summary

Exhibit R-1

February 2007

	Thousands of Dollars		
		FY 2008 GWOT Request	
Summary Recap of Budget Activities	FY 2008 Base		FY 2008 Total
Basic research	0	0	0
Applied Research	0	0	0
Advanced Technology Development	0	0	0
Advanced Component Development and Prototypes	992	30,375	31,367
System Development and Demonstration	18,420	73,558	91,978
Management Support	5,800	20	5,820
Operational System Development	48,581	37,700	86,281
Total RDT&E, Army	73,793	141,653	215,446

UNCLASSIFIED
Department of the Army
FY 2007 RDT&E Program
GWOT Budget Estimate
Summary

Exhibit R-1

		February 2007		
		Thousands of Dollars		
			FY 2009 GWOT Request	
Summary Recap of Budget Activities		FY 2008 Base		FY 2008 Total
Advanced Component Development and Prototypes				
0603747A/C08	04 Rapid Equipping Force	992	30,375	31,367
Total: Advanced Component Development and Prototypes		992	30,375	31,367
System Development and Demonstration				
0604601A/S61	05 Aircrew Integrated Systems Engineering Development	2,542	8,158	10,700
0604642A/E46	05 Applied Vehicle Concepts	0	20,000	20,000
0604741A/149	05 Counter-Rockets, Artillery & Mortar (C-RAM) Development	1,340	38,900	40,240
0604746A/L59	05 Diagnostic/Expert Systems Development	14,538	6,500	21,038
Total: System Development and Demonstration		18,420	73,558	91,978
Management Support				
0605801A/M42	06 ARDEC CMD/CTR Support	5,800	20	5,820
Total: Management Support		5,800	20	5,820
Operational System Development				
0203764A/TW1	07 Tactical Wheeled Vehicle Improvement Program	0	7,500	7,500
0303140A/50B	07 Biometrics	13,330	23,300	36,630
0303150A/C86	07 Army Global Command and Control System	24,836	3,800	28,636
0303158A/714	07 Joint Command and Control - Army	10,415	3,100	13,515
Total: Operational System Development		48,581	37,700	86,281
RDT&E, Army		73,793	141,653	215,446

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Light Tactical Wheeled Vehicles	0604642A	5.....	11
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Soldier Support and Survivability	0603747A	4.....	3
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WWMCCS/Global Command and Control System	0303150A	7.....	31

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)								February 2007				
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes			PE NUMBER AND TITLE 0603747A - Soldier Support and Survivability							PROJECT C08		
COST (In Thousands)			FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
C08	RAPID EQUIPPING FORCE				31367							31367
<p><u>A. Mission Description and Budget Item Justification:</u> The US Army Rapid Equipping Force (REF) was established to provide urgently needed state-of-the-art technology to soldiers in the field to meet immediate warfighter needs under operational conditions in the current theaters. The REF Forward Teams in Iraq and Afghanistan work with Combatant Commanders and the soldiers to identify warfighter needs while REF Rear formulates solutions and rapidly delivers/fields new equipment to the deployed units. REF solutions are rapid responses to evolving, adaptable and changing, mostly asymmetric threats, in any operational environment. Projects will be aimed at improving mission mobility/survivability including evaluating concepts and hardware/software that accomplish this with current platforms and possible new platforms and or non-platform (satellites) solutions. The REF was designed to bridge the gap between the lengthy acquisition process and warfighter equipping needs that should not be delayed. Specifically the REF is charged to: EQUIP operational commanders with off-the-shelf (government or commercial) solutions or near term developmental items that can be researched, developed and acquired quickly - ideally within 90 days. INSERT future force technology solutions that engaged and deploying forces require by developing, testing and evaluating key technologies and systems under operational conditions. ASSESS capabilities and advise Army stakeholders of findings that will enable forces to confront an adaptive enemy rapidly.</p> <p>FY 08 GWOT funding will provide for safety confirmation, capabilities and limitation testing, GOTS/COTS and near term development, and science and technology development, as described below.</p>												
<u>Accomplishments/Planned Program:</u>								<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	
FY 08 Base: The REF was designed to bridge the gap between the lengthy acquisition process and warfighter equipping needs that should not be delayed. Specifically the Rapid Equipping Force is charged to: EQUIP operational commanders with off-the-shelf (government or commercial) solutions or near-term developmental items that can be researched, developed and acquired quickly - ideally, within 90 days. INSERT future force technology solutions that engaged and deploying forces require by developing, testing and evaluating key technologies and systems under operational conditions. ASSESS capabilities and advise Army stakeholders of findings that will enable forces to confront an adaptive enemy rapidly. The REF ensures safety testing of all equipment prior to release to the soldier. REF focuses on the development and testing of systems and mechanisms designed to detect, identify and defeat enemy equipment and actions designed to injure or kill and devices to help protect the warfighter.										992		
FY 08 GWOT: Safety confirmation, capabilities and limitation testing. Asymmetric Warfare Group (AWG) will conduct Combat Evaluation of vehicle modifications that provide increased survivability. Specifically, enhancements to turret systems and use of ballistic blankets to mitigate direct fire and blast effects. Provide RDTE flexibility for emerging research shortfalls to enhance force protection and soldier survivability. Effort will focus on emerging enhancements in body armor.										5000		
FY 08 GWOT: GOTS/COTS and near term developmental items to support Soldiers in OIF/OEF. Funding will cover an array of capabilities supporting our ability to see the enemy (both active and passive systems). The existing technologies and those currently under research and development are instrumental to the AWG's mission, specifically that of AW detection, mitigation, elimination, and defeat. Categories within this line will seek capabilities that include Quick Reaction ISR technology solutions, rapid assessment of COTS as a potential solution to existing capability shortfalls, and next generation optics and counter optics. Enhanced capabilities in Intelligence										17375		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)				February 2007
BUDGET ACTIVITY	PE NUMBER AND TITLE			PROJECT
4 - Advanced Component Development and Prototypes	0603747A - Soldier Support and Survivability			C08
Surveillance Reconnaissance (ISR) (to include ISR Distribution, Technical Surveillance Equipment, Tagging capabilities, and long range fused and infrared systems) will be fielded, assessed and recommended for transition to Army forces. Lifecycle costs are included for those applicable categories				
FY 08 GWOT: Science and Technology development. Provides RDTE funds to replicate enemy devices encountered during combat operations and allows for developing countermeasures to mitigate and defeat these threats through TTP and technology development. Funds allow for the internal evaluation of non standard systems that provide enhanced lethality over standard Army systems. Internal evaluation will focus on alternatives to standard systems ranging from small arms to enhanced explosives. Concepts include rifle fired grenades, obscuration, and modifications that provide user enhancement. Derived new/enhanced capabilities will provide basis for nomination and transition to the Army.			8000	
Total			31367	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)					February 2007
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE 0603747A - Soldier Support and Survivability			PROJECT C08
<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2007)					
Current BES/President's Budget (FY 2008/2009)			31367		
Total Adjustments			31367		
Congressional Program Reductions					
Congressional Program Rescissions					
Congressional Increases			30375		
Reprogrammings					
SBIR/STTR Transfer					
Adjustments to Budget Years			992		
Change Summary Explanation: Funding: FY 08 - Funds to support REF efforts (+992) and anticipated FY 08 GWOT Congressional increase (+30375).					
FY 08 Base 992 FY 08 GWOT 30,375 Total 31,367					
<u>C. Other Program Funding Summary</u> Not applicable for this item.					
<u>D. Acquisition Strategy</u> The REF provides urgently needed, state-of-the-art technology to soldiers in the field to meet immediate requirements. REF Rear evaluates, utilizes or adapts currently available military or civilian items (COTS/GOTS) which typically have not been type classified for Army-wide use but are available and adaptable to the current Combatant Operational Commander's needs. The REF solution is a rapid response to evolving, adaptable and changing asymmetric threats in any operational environment. The REF was designed to bridge the gap between the lengthy acquisition process and warfighter equipping needs that should not be delayed. Specifically the Rapid Equipping Force is charged to: EQUIP operational commanders with off-the-shelf (government or commercial) solutions or near-term developmental items that can be researched, developed and acquired quickly - ideally, within 90 days. INSERT future force technology solutions that engaged and deploying forces require by developing, testing and evaluating key technologies and systems under operational conditions. ASSESS capabilities and advise Army stakeholders of findings that will enable forces to confront an adaptive enemy rapidly.					

ARMY RDT&E COST ANALYSIS (R3)											February 2007			
BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
4 - Advanced Component Development and Prototypes			0603747A - Soldier Support and Survivability									C08		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
GOTS/COTS for Soldier Support								18367					18367	
Science and Tech Development								8000					8000	
Subtotal:								26367					26367	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
ATEC- Safety Testing	MIPR							5000	1Q				5000	
Subtotal:								5000					5000	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
Project Total Cost:								31367					31367	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604601A - Infantry Support Weapons

PROJECT

S61

COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
S61 ACIS ENGINEERING DEVELOPMENT			10700							10700

A. Mission Description and Budget Item Justification: This project provides System Development programs with improved aviator safety, survivability, and human performance that amplify the warfighting effectiveness and facilitates full-spectrum dominance of the Army aircraft including the AH-64 Apache/Longbow, CH-47 Chinook, UH/HH-60 Blackhawk, Light Utility Helicopter, and Armed Reconnaissance Helicopter. These programs include soldier systems and equipment which are unique and necessary for the sustainment, survivability, and performance of Army aircrews and troops on the future integrated battlefield. The Air Warrior program will provide the aircrew with a systems approach to noise protection, three-dimensional audio and external audio capability, microclimate conditioning, crash and post-crash survivability, concealment and environmental protection, ballistic protection, night vision capability and heads-up display, directed energy eye protection and flame/heat protection. Air Warrior enables the Army Aviation Warfighter to meet the approved Operational Requirements Document mission length of 5.3 hours with aviators in full chemical/biological protective gear. Preplanned block improvements integrating new technologies into the Air Warrior system will continue to enhance and maximize aircrew mission performance, comfort, aircrew station interface, safety, and survivability. These funds also resource improved laser protection against emerging new threat systems and product improvement of existing helmets to improve performance and increased commonality. Maximum advantage will be taken of simulation to reduce program technical risk through early user evaluation and to reduce program design and test cost and schedules.

The FY 2008 GWOT funds are for the Landmark Program. This program is an urgent priority project involving the rapid development and/or procurement/issuing of equipment used to support Personnel Recovery operations and is executed at the direction of the VCSA/Army G3. The program currently consists of two distinct efforts: Guidepost - Personnel Locator Beacons and supporting architecture; Landmark - Blue Force Tracking Identification System.

Accomplishments/Planned Program:

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 08 Base: Continue the integration of preplanned Air Warrior Block 2 and 3 improvements			1191	
FY 08 Base: Aircrew wireless intercom system (AWIS) encryption certification			1351	
FY 08 GWOT: Landmark development and integration with additional platforms			8158	
Total			10700	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)					February 2007
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604601A - Infantry Support Weapons			PROJECT S61
<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2007)			2562		
Current BES/President's Budget (FY 2008/2009)			10700		
Total Adjustments			8138		
Congressional Program Reductions					
Congressional Program Rescissions					
Congressional Increases			8158		
Reprogrammings					
SBIR/STTR Transfer					
Adjustments to Budget Years			-20		
Change Summary Explanation: Funding: FY 08 - Anticipated FY 08 GWOT Congressional increase (+8158).					
FY 08 Base 2,542 FY 08 GWOT 8,158 Total 10,700					
<u>C. Other Program Funding Summary</u> Not applicable for this item.					
<u>D. Acquisition Strategy</u> The Landmark program GWOT requirement provides continuing development efforts to integrate the Landmark system with required platforms and optimize performance. These efforts are achieved through cost plus fixed fee contracts and MIPRs to other government agencies.					

ARMY RDT&E COST ANALYSIS (R3)										February 2007				
BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT			
5 - System Development and Demonstration			0604601A - Infantry Support Weapons								S61			
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: Air Warrior Development	C-CPFF	Various						2347	1-2Q				2347	
GWOT: Landmark Development	MIPR	Various Government						4700	3Q				4700	
GWOT: Guidepost Development	C-CPFF	Various						500	3Q				500	
Subtotal:								7547					7547	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: Matrix Support	MIPR and Project Order	Various Government						38	1-4Q				38	
GWOT: Landmark Matrix Support	MIPR	AMRDEC						350	3Q				350	
GWOT: Landmark Development Support	C-CPFF	Various						1233	3Q				1233	
GWOT: Landmark Development Support	MIPR	CERDEC						568	3Q				568	
Subtotal:								2189					2189	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: Developmental Testing	MIPR	Various						28	1-2Q				28	
Subtotal:								28					28	

ARMY RDT&E COST ANALYSIS (R3)										February 2007				
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604601A - Infantry Support Weapons								PROJECT S61		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: PM Administration	Allotment	Various Government						129	1-4Q				129	
GWOT: Landmark PM Administration	C-FFP	Various						807	3Q				807	
Subtotal:								936					936	
Project Total Cost:								10700					10700	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT	
5 - System Development and Demonstration			0604642A - LIGHT TACTICAL WHEELED VEHICLES							E46	
COST (In Thousands)		FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
E46	HMMWV Recap			20000							20000

A. Mission Description and Budget Item Justification: GWOT: Based on VCSA requirement, a new tactical truck is needed immediately because of shortcomings in the HMMWV fleet. This truck will be a replacement for some but not all of the HMMWV fleet based on unit requirements. The requirements for current combat situations include protection from small arms, improvised explosive devices, movement over urban and off road terrain, attachment of heavier weapons systems like CROWS, and data interchange program needs. The HMMWV has been operating at or over its approved combat load, creating a lack of needed mobility, maintenance problems, safety issues, and an inability to meet the needs of the data interchange program.

Supplemental: Since the Joint Light Tactical Vehicle program will not produce a vehicle until 2012, the Army will run a prototype competition during FY2007 with industry using commercial off the shelf (COTS) vehicles that meet some but perhaps not all of the Joint Light Tactical Vehicle (JLTV) requirements. Under a industry/government teaming concept, including manufacturers, vehicle customizers, government engineers and Soldiers, the COTS vehicles will be tested and modified and judged against the JLTV requirements. Modified HMMWVs will not be excluded from this competition. The results of this competition will be used to award a contract quickly and produce vehicles in a timely manner.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 08 GWOT: Combat Truck Development, Testing, & Integration			19000	
FY 08 GWOT: Support Costs (Engineering/Quality/Matrix Support)			1000	
Total			20000	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)					February 2007
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604642A - LIGHT TACTICAL WHEELED VEHICLES			PROJECT E46
<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2007)					
Current BES/President's Budget (FY 2008/2009)			20000		
Total Adjustments			20000		
Congressional Program Reductions					
Congressional Program Rescissions					
Congressional Increases			20000		
Reprogrammings					
SBIR/STTR Transfer					
Adjustments to Budget Years					
Change Summary Explanation: Funding: FY 08 - anticipated FY 08 GWOT Congressional increase (+20000).					
FY 08 Base 0 FY 08 GWOT 20,000 FY 08 Total 20,000					
<u>C. Other Program Funding Summary</u> Not applicable for this item.					
<u>D. Acquisition Strategy</u> The Acquisition Strategy is to run a prototype competition with industry using commercial off the shelf (COTS) vehicles that meet some but perhaps not all of the Joint Light Tactical Vehicle (JLTV) requirements. The COTS vehicles will be tested and modified against the JLTV requirements. The result of this competition will be used to award a production contract for a limited amount of vehicles until the JLTV becomes available.					

ARMY RDT&E COST ANALYSIS (R3)										February 2007				
BUDGET ACTIVITY				PE NUMBER AND TITLE								PROJECT		
5 - System Development and Demonstration				0604642A - LIGHT TACTICAL WHEELED VEHICLES								E46		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Combat Truck Prototype	C/FP	TACOM, Warren, MI						15000	1Q				15000	
Subtotal:								15000					15000	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Combat Truck Testing	MIPR	ATC, Aberdeen, MD						4000	1Q				4000	
Subtotal:								4000					4000	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
PM Support Costs	N/A	Warren, MI						1000	1-2Q				1000	
Subtotal:								1000					1000	
Project Total Cost:								20000					20000	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT	
5 - System Development and Demonstration			0604746A - Automatic Test Equipment Development							L59	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost	
L59 DIAGNOST/EXPERT SYS DE			21038							21038	

A. Mission Description and Budget Item Justification: This project funds development of and system enhancements for the Next Generation Automatic Test System (NGATS). The NGATS, also known as the Base Shop Test Facility (BSTF) (V)6, is a general-purpose automatic test system that will provide test and diagnostic capabilities required to support current and future weapons and combat support systems and will facilitate retirement of aging and obsolete test equipment that is imposing increasing logistics and operations and support cost burdens. This project provides for continuing efforts to upgrade and improve general-purpose automatic test equipment to satisfy test and diagnostic requirements of the Army's new and upgraded weapon systems; development and adaptation of automatic test equipment required to overcome existing deficiencies and voids in organic test and diagnostic capabilities; development and testing of common procedures utilizing existing test program sets and software applications; and market surveys of commercially available test equipment, methods, and procedures to determine applicability to Army requirements. The test and diagnostic systems and procedures developed under this project are essential for ensuring the operational readiness, accuracy, and effectiveness of the Army's warfighting systems. This project also funds the Army's participation in the Agile Rapid Global Combat Support (ARGCS) Advanced Concept Technology Demonstration (ACTD) which is developing a common automatic test systems architecture that will enhance portability of all Services' test program sets and reduce Defense expenditures for test equipment and personnel.

FY 2008 GWOT funds will allow accelerated development of aviation and ground support test and diagnostic capability planned for spirals 2 and 3 to facilitate a faster replacement of obsolete automatic test equipment (ATE) essential to providing support required to maintain operational readiness of critical warfighting weapon systems.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY08 Base: Develop and test a Joint Services compliant, rapidly deployable, general-purpose automatic test system (ATS)			5000	
FY08 Base: Further develop and test system to implement planned spiral development and increase supported weapons platforms			5000	
FY08 Base: Develop and test new hardware and software required to consolidate all ATS support requirements in this single test system			3000	
FY08 Base: Develop and evaluate new software applications to increase Integrated Family of Test Equipment capability			1538	
FY 08 GWOT: Develops and integrates electro-optics testing capability in NGATS to support Apache, Kiowa Warrior and critical ground combat systems.			3000	
FY 08 GWOT: Tests integration of test program sets for vital weapons platforms engaged in ongoing GWOT combat operations.			3500	
Total			21038	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)					February 2007	
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604746A - Automatic Test Equipment Development			PROJECT L59
<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009		
Previous President's Budget (FY 2007)			1472			
Current BES/President's Budget (FY 2008/2009)			21038			
Total Adjustments			19566			
Congressional Program Reductions						
Congressional Program Rescissions						
Congressional Increases			6500			
Reprogrammings						
SBIR/STTR Transfer						
Adjustments to Budget Years			13066			
Change Summary Explanation: Funding: FY 08 - Base funding increased to avoid delays in evolutionary development of the Next Generation Automatic Test System (+13066) and anticipated FY 08 GWOT Congressional increase (+6500). FY 08 Base 14,538 FY 08 GWOT 6,500 FY 08 Total 21,038						
<u>C. Other Program Funding Summary</u> Not applicable for this item.						
<u>D. Acquisition Strategy</u> This developmental project consists of cooperative in-house and competitive and sole-source contractual actions. When the necessary expertise and capability are available within the Department of Defense, services required for the individual development projects are ordered from the government source; otherwise commercial contracts are used. Equipment required for developmental projects is obtained by contract from the commercial supplier. Developmental efforts for the Next Generation Automatic Test System (NGATS) are being completed under a sole-source contract awarded to the prime contractor for the Integrated Family of Test Equipment off-platform testers. NGATS will follow an evolutionary acquisition strategy using spiral development. The NGATS Increment 1 will replace the Direct Support Electrical Systems Test Set (DSESTS). Increments 2 and 3 will replace the BSTF (V) 3 and BSTF (V) 5 systems respectively.						

ARMY RDT&E COST ANALYSIS (R3)											February 2007				
BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT			
5 - System Development and Demonstration			0604746A - Automatic Test Equipment Development									L59			
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Base: Hardware Development	Various	Various						4299	2-3Q				4299		
Base: Software Development/Verification/Validation	Various	Various						8414	2-3Q				8414		
GWOT: Prototype Development	SS/CPFF	Northrop Grumman, Rolling Meadows, IL						369	2Q				369		
GWOT: Prototype Development	SS/CPFF	Northrop Grumman, Rolling Meadows, IL						3192	4Q				3192		
GWOT: Hardware Development	Various	Various						468	2Q				468		
GWOT: Software Development - IFTE	Various	Various						468	2Q				468		
Subtotal:								17210					17210		
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Base: Project Management		Various						525	1-4Q				525		
Base: Other Direct		Various						500	1-4Q				500		
GWOT: Project Management		Various						761	1-4Q				761		
GWOT: Other Direct		Various						271	1-4Q				271		
Subtotal:								2057					2057		

ARMY RDT&E COST ANALYSIS (R3)											February 2007					
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604746A - Automatic Test Equipment Development											PROJECT L59	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract		
Base: Operational Testing	Various	Various						800					800			
GWOT: Operational Testing	Various	Various						315	4Q				315			
GWOT: Developmental Testing	Various	Various						656	1Q				656			
Subtotal:								1771					1771			
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract		
Subtotal:																
Project Total Cost:								21038					21038			

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT	
5 - System Development and Demonstration			0604741A - Air Defense Command, Control and Intel - Eng							149	
COST (In Thousands)		FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
149	COUNTER-ROCKETS, ARTILLERY & MORTAR (C-RAM) DVPMT			48823							48823

A. Mission Description and Budget Item Justification: Counter-Rockets, Artillery and Mortar (C-RAM) is a spiral Initiative Non Developmental program initiated by the Army Chief of Staff in response to Iraqi theatre threat and twice validated theater ONS. The primary mission of the C-RAM program is to develop, procure, field and maintain a system that can detect rocket, artillery or mortar launches; warn the defended area with sufficient time for personnel to take cover; intercept rounds in flight, thus preventing damage to ground forces or facilities; and enhance response to and defeat of enemy forces. C-RAM utilizes a system of systems (SoS) approach, and is comprised of a combination of multi-service fielded and non-developmental item (NDI) sensors, command and control (C2) systems and a modified U.S. Navy intercept system, with a low cost commercial off-the-shelf (COTS) warning system and wireless local area network. The system will be fielded to various echelons, fixed or semi-fixed-site, providing them correlated air and ground pictures and linking them to the Army Battle Command System (ABCS) and the Joint Defense Network (JDN), via various forms of communications to provide situational awareness and exchange of timely and accurate information to synchronize and optimize automated Shape, Sense, Warn, Intercept, Respond and Protect decisions.

The fielding of the C-RAM SoS will be accomplished through an incremental fielding approach that is driven by an urgent operational need, theater priorities and emerging capability requirements to provide counter-RAM capability to fielded forces. Increments depend on the readiness of future technologies, value to the operational concept, enemy threat, affordability and integration considerations at the element and SoS level.

Current development efforts include the implementation of improvements and upgrades to C-RAM Increment I and the initial development of Increment II capabilities. C-RAM is transitioning from an IED Task Force Initiative to a Program of Record and is currently in the process of creating a formal acquisition strategy documentation support package. It will be managed as an ACAT I program upon formal designation as a program of record.

FY 2008 GWOT funds will enhance C-RAM Response capability (digital clearance of fires, etc.), initiate consolidation of workstations and initiate improvements in the Shape function, and conduct system integration testing at Yuma Proving Ground (YPG).

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 08 Base: Develop advanced user interface/capabilities			4923	
FY 08 Base: Test/demonstration support for new C-RAM capabilities			5000	
FY 08 GWOT: Enhance C-RAM Response capability (digital clearance of fires, etc.), initiate consolidation of workstations and initiate improvements in the Shape function, and conduct system integration testing at Yuma Proving Ground (YPG).			38900	
Total			48823	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)					February 2007
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604741A - Air Defense Command, Control and Intel - Eng			PROJECT 149
<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2007)					
Current BES/President's Budget (FY 2008/2009)			48823		
Total Adjustments			48823		
Congressional Program Reductions					
Congressional Rescissions					
Congressional Increases			38900		
Reprogrammings					
SBIR/STTR Transfer					
Adjustments to Budget Years			9923		
Change Summary Explanation: FY 2008 - Transition from an IED Task Force Initiative to a Program of Record (+9923) and anticipated FY 08 GWOT Congressional increase (+38900). FY 08 Base 9,923 FY 08 GWOT 38,900 Total 48,823					
<u>C. Other Program Funding Summary</u> Not applicable for this item.					
<u>D. Acquisition Strategy</u> The C-RAM program is following an evolutionary acquisition strategy for rapid acquisition of mature technology to the user. The approach will deliver capabilities in increments, recognizing up front the need for future improvements. The objective of the strategy is to balance needs and available capability with resources and put a robust capability to engage rockets, artillery, and mortars into the hands of the user quickly. Success will depend on continuous user feedback, consistent definition of capability needs, maturation of technology, and allocation of required resources. To achieve the evolutionary acquisition of C-RAM, the program director will collaborate and coordinate with the user, combat developer, tester, logistician, PEO C3T, and resource provider (e.g., G8). The program will follow the _Spiral Development_ process (per DoDI 5000.2), where the desired capability is identified, but the end-state requirements are not fully known at program initiation. Those end-state C-RAM requirements will be refined through demonstration and risk management. Each fielded increment provides the user with the best possible capability over time. The requirements for future increments depend on feedback from users and technology maturation.					

ARMY RDT&E COST ANALYSIS (R3)										February 2007				
BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
5 - System Development and Demonstration			0604741A - Air Defense Command, Control and Intel - Eng									149		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: Northrop Grumman	ID/IQ CPFF	Carson, CA						2125	4Q				2125	
Base: Northrop Grumman	CPFF	Carson, CA						6298	2Q				6298	
Base: Program Management	MIPR	Various						1500	2Q				1500	
GWOT: C-RAM Sense, Warn, & Intercept	Various	Various						38900	1Q				38900	
Subtotal:								48823					48823	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
Project Total Cost:								48823					48823	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)							February 2007			
BUDGET ACTIVITY 6 - Management support			PE NUMBER AND TITLE 0605801A - Programwide Activities				PROJECT M42			
COST (In Thousands)			FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
M42	ARDEC CMD/CTR Support				5820					
A. Mission Description and Budget Item Justification: Supports the non-Army Management Headquarters Activity (AMHA) management and administrative functions at the U.S. Army Armament Research, Development and Engineering Center (ARDEC), Picatinny Arsenal, NJ.										
Accomplishments/Planned Program:							<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FT 08 Base: Provide continued operation of management and administrative functions at a level consistent with mission requirements and support needs at ARDEC.									5800	
FY 08 GWOT: Conduct vulnerability reviews and analyzes current and potential domestic/foreign enemy threats. Coordinate and provide threat support to materiel developers and the scientific/technical community. Maintain complete database of current intelligence information for ARDEC and insures all source intelligence is applied and included early in development and throughout lifecycle of Army Technology Objectives (ATO), Advanced Concept Technology Demonstrations (ACTD), Advanced Technology Demonstrations (ATD) and other efforts. Conduct and report pre/post briefings for Iraq deployment initiatives.									20	
Total									5820	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)					February 2007
BUDGET ACTIVITY 6 - Management support		PE NUMBER AND TITLE 0605801A - Programwide Activities			PROJECT M42
<u>B. Program Change Summary</u>		FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)				5880	
Current BES/President's Budget (FY 2008/2009)				5820	
Total Adjustments				-60	
Congressional Program Reductions					
Congressional Program Rescissions					
Congressional Increases				20	
Reprogrammings					
SBIR/STTR Transfer					
Adjustments to Budget Years				-80	
Change Summary Explanation: Funding: FY 08 - Anticipated FY 08 GWOT Congressional increase (+20).					
FY 08 Base					
5,800					
FY 08 GWOT					
20					
FY 08 Total					
5,820					

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)									February 2007	
BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0203764A - Tactical Wheeled Vehicle Improvement Program					PROJECT TW1	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
TW1 TWV PRODUCT IMPROVEMENT PROGRAM			7500							7500
<p><u>A. Mission Description and Budget Item Justification:</u> The Hardwire initiative is to provide improved vehicle protection at significantly reduced weight compared to existing armor systems, particularly for light tactical vehicles such as the High-Mobility Multipurpose Wheeled Vehicle (HMMWV) at a cost comparable to traditional steel and fiberglass compositions. The key feature of the Hardwire armor system is a steel wire-polymer composite that provides support to and significantly increases the strength of ceramic and metal layers without incurring the high costs of traditional composite materials. The goals of the program is to transition the armor production paradigm from a boutique, small-throughput operation to one similar to precision, high-throughput automotive manufacturing. By decreasing the weight of the protection system, it can possibly allow for larger cargo capacity, increased passenger weight, etc.</p> <p>FY 08 GWOT funding in this program will continue the development and testing of the composite material solutions to provide armor vehicle protection at a reduced vehicle weight capability. The main supplemental will allow for additional development and testing.</p>										
<u>Accomplishments/Planned Program:</u>						<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	
Performance and responsibilities for the manufacturing technology development of Hardwire armor technology, Phase I.								7500		
Total								7500		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)					February 2007
BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT
7 - Operational system development		0203764A - Tactical Wheeled Vehicle Improvement Program			TW1
B. Program Change Summary	FY 2006	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2007)					
Current BES/President's Budget (FY 2008/2009)			7500		
Total Adjustments			7500		
Congressional Program Reductions					
Congressional Rescissions					
Congressional Increases			7500		
Reprogrammings					
SBIR/STTR Transfer					
Adjustments to Budget Years					
Change Summary Explanation: Funding: FY 08 - Anticipated FY 08 GWOT Congressional increase (+7500).					
FY 08 Base 0 FY 08 GWOT 7,500 FY 08 Total 7,500					
C. Other Program Funding Summary Not applicable for this item.					
D. Acquisition Strategy Not applicable for this item.					

ARMY RDT&E COST ANALYSIS (R3)											February 2007			
BUDGET ACTIVITY				PE NUMBER AND TITLE								PROJECT		
7 - Operational system development				0203764A - Tactical Wheeled Vehicle Improvement Program								TW1		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Product Development	CPIF	Hardwire, Pocomoke, MD						6173	2Q				6173	
Subtotal:								6173					6173	
Remarks: Effort will integrate Hardwire Armor into Army vehicles by developing materials and manufacturing capabilities to perform vehicle integration and scale up production.														
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
REF Support	Direct	REF, Ft Belvoir, MD						600					600	
Subtotal:								600					600	
Remarks: Remarks: Hardwire LLC, Pocomoke, MD														
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
APG, MD	MIPR	APG, MD						727	2Q				727	
Subtotal:								727					727	
Remarks: DARPA-developed Hardwire armor technology, Phase I. Materials and manufacturing research and development to scale-up production and improve performance of manufacturing technology for reduced weight armor vehicle protection systems. Coupon characterization testing, Live fire test of full up vehicle configuration, 3,000 mile vehicle performance test. 152-94-2 test standard for armor - note this is RDT&E phase not procurement. Testing will continue as materials are produced and installed on test vehicles														
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														

ARMY RDT&E COST ANALYSIS (R3)							February 2007						
BUDGET ACTIVITY				PE NUMBER AND TITLE							PROJECT		
7 - Operational system development				0203764A - Tactical Wheeled Vehicle Improvement Program							TW1		
Project Total Cost:									7500				7500

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)									February 2007	
BUDGET ACTIVITY 7 - Operational system development			PE NUMBER AND TITLE 0303140A - Information Systems Security Program						PROJECT 50B	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
50B BIOMETRICS			36630							36630
<p>A. Mission Description and Budget Item Justification: Secretary of the Army (SA) is the Executive Agent for the DoD Biometrics (automated methods of human recognition) Program. The DoD Biometrics program consists of the DOD Biometric Management Office (BMO), DoD Biometric Fusion Center (BFC), and Product Director (PD)-Biometrics, supports biometric research, testing, evaluation, and related activities. The BMO provides oversight, guidance, policy and standards support. The BFC provides technical expertise, early assessment of biometric capabilities, as well as industry and academia interface. PD-Biometrics provides acquisition support, repository management, DoD Automated Biometric Identification Support (ABIS) operations and maintenance, lifecycle management, and material development. The DoD Biometric program focuses on an enterprise approach, emphasizing interoperability and utilizing tested biometric technologies for incorporation into DoD business processes.</p> <p>FY 2008 GWOT funds will move the biometrics program towards an enterprise solution, providing a multi-modal biometric capability to include local watch list synchronization, secure web portal access, and service-oriented architecture. This would also include:</p> <p>Developing a common biometrically enabled watch list for DoD. Entailing both the technical means to implement the watch list and the organizational challenges of a common product.</p> <p>Developing the technical solution to address the untethered operation of biometric collection devices. This "last tactical mile" provides the ability to give the operator immediate feedback on the status of a biometric request.</p> <p>Identifying the shortfalls in current communications architecture to increase the efficiency and speed of biometric match results. The authoritative data source is the heart of the biometric process. The connections, protocols, and technology needed to provide a result in less than one minute will be defined within this effort.</p>										
<u>Accomplishments/Planned Program:</u>						<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	
FY 2008 Base: Conduct test and evaluation of biometric commercial hardware and software to determine suitability for use within DoD. Conduct modeling and simulation efforts to support operational evaluation. Conduct DoD-wide working groups to synthesize enterprise biometric requirements and abilities into biometrics technology demonstrations and pilot activities. Support biometric integration in existing command and control and MIS systems.								13330		
FY 2008 GWOT: Develop a common biometrically enabled watch list for DoD.								11000		
FY 2008 GWOT: Develop untethered operation of biometric collection devices.								9300		
FY 2008 GWOT: Identify the shortfalls in current communications architecture to increase the efficiency and speed of biometric match results.								3000		
Total								36630		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)								February 2007		
BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT	
7 - Operational system development				0303140A - Information Systems Security Program					50B	
B. Program Change Summary				FY 2006	FY 2007	FY 2008	FY 2009			
Previous President's Budget (FY 2007)						14978				
Current BES/President's Budget (FY 2008/2009)						36630				
Total Adjustments						21652				
Congressional Program Reductions										
Congressional Program Rescissions										
Congressional Increases						23300				
Reprogrammings										
SBIR/STTR Transfer										
Adjustments to Budget Years						-1648				
Change Summary Explanation: Funding: FY 08 - Anticipated FY 08 GWOT Congressional increase (+23300)/Funds realigned to higher priority Army programs (-1648). FY 08 Base 13,330 FY 08 GWOT 23,300 Total 36,630										
C. Other Program Funding Summary										
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
TA0600 - Information Systems Security Program			3006							3006
432144 - Operations and Maintenance Army			11977							11977
D. Acquisition Strategy The objective of this project is to develop the DoD Automated Biometrics Identification System (ABIS) and biometric capability that will be managed at the enterprise level. ABIS currently provides a biometric matching capability that can identify national security threats in support of the Global War on Terrorism for a variety of functions. Primary focus for FY06 was to establish the biometrics program of record and develop a framework for leveraging technologies and processes to facilitate better sharing of biometric data on persons of interest collected and forwarded to other DoD agencies and to develop a biometric implementation strategy for Homeland Security Presidential Directive (HSPD)-12. The program will also continue to support the testing and evaluation of products and other analysis and evaluation of applicable technologies										

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)		February 2007
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
7 - Operational system development	0303140A - Information Systems Security Program	50B
<p>as well as finalize and synthesize an interoperable biometric enterprise approach. FY07 and beyond will continue to support technology, pilot test and evaluation activities and the deployment of biometric devices and systems used for biometric data collection and processing, physical access, logical access, identity proofing, intelligence exploitation, and law enforcement. A board selected Program Manager will be appointed at PEO EIS to ensure that biometric activities continue to serve the DoD communities that use biometric technology.</p>		

ARMY RDT&E COST ANALYSIS (R3)										February 2007				
BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
7 - Operational system development			0303140A - Information Systems Security Program									50B		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: Enterprise Development	Various	Various						13330					13330	
GWOT: Enterprise Development	Various	Various						23300	1-4Q				23300	
Subtotal:								36630					36630	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
Project Total Cost:								36630					36630	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT	
7 - Operational system development			0303150A - WWMCCS/Global Command and Control System							C86	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost	
C86 ARMY GLOBAL C2 SYSTEM			28636							28636	

A. Mission Description and Budget Item Justification: Global Command and Control System-Army (GCCS-A): This project is the Army component system that directly supports the implementation of the Global Command and Control System-Joint (GCCS-J). GCCS-A provides automated command and control tools for Army Strategic and Operational Theater Commanders to enhance warfighter capabilities throughout the spectrum of conflict during joint and combined operations in support of the National Command Authority (NCA). The GCCS-A developed software systems will dramatically improve the Army's ability to analyze courses of action; develop and manage Army Forces; and ensure feasibility of war plans. GCCS-A will provide a client-server layered architecture and functional best-of-breed software applications to develop a totally integrated component of the Global Command and Control System-Joint (GCCS-J).

Justification for FY08 GWOT Dollars:

Supplemental funding will support the Army's efforts to implement Oracle database applications ensuring continued interoperability between Global Command and Control System - Joint (GCCS-J) and Global Command and Control System - Army (GCCS-A). Interoperability between GCCS-J and GCCS-A is critical in providing Situational Awareness to OIF/OEF units and Commanders. Lack of interoperability will break the interface with GCCS-J and OIF/OEF deployed units, and Commands will not be provided with Situational Awareness received from the joint level nor will joint commanders receive critical data needed from GCCS-A to lead OIF/OEF operations.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 08 Base: Perform Systems Engineering			1798	
FY 08 Base: Software Development			19922	
FY 08 Base: Perform Data Engineering			526	
FY 08 Base: Conduct Test and Evaluation			1000	
FY 08 Base: Perform Program Support and Management Efforts			1590	
FY 08 GWOT: Perform Systems Engineering			1140	
FY 08 GWOT: Software Development			2660	
Total			28636	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)					February 2007
BUDGET ACTIVITY 7 - Operational system development		PE NUMBER AND TITLE 0303150A - WWMCCS/Global Command and Control System			PROJECT C86
<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2007)			38387		
Current BES/President's Budget (FY 2008/2009)			28636		
Total Adjustments			-9751		
Congressional Program Reductions					
Congressional Rescissions					
Congressional Increases			3800		
Reprogrammings					
SBIR/STTR Transfer					
Adjustments to Budget Years			-13551		
Change Summary Explanation: Funding: FY 08 - Anticipated FY 08 supplemental Congressional increase (+3800)/Funds realigned to higher priority Army requirements (-13551). FY 08 Base 24,836 FY 08 GWOT 3,800 FY 08 Total 28,636					
<u>C. Other Program Funding Summary</u> Not applicable for this item.					
<u>D. Acquisition Strategy</u> The GCCS-A Acquisition Decision Memorandum (ADM) dated 28 May 2002 directed development of a Block Implementation Plan (BIP), which identifies the Block 4-Operational requirements that will be developed from the GCCS-A unblocked 16 November 2000 Operational Requirement Document (ORD). GCCS-A Strategic Block 4 and the Operational Block 4 will coincide with the GCCS-J Blocks 4 and 5 [which begins the transition to Global Information Grid (GIG) Enterprise Services (GES)] Common Operating Environment (COE) 4.X, and Army Battle Command System (ABCS) 6.4 (Army Software Block 1). The next major block for GCCS-A will be Block 1 of Joint Command and Control (JC2). GCCS-A utilizes Commercial-Off-The-Shelf (COTS) and Government-Off-The-Shelf (GOTS) software products, in addition to developed software. Common Hardware (HW) platforms will be used within the Army to implement GCCS-A/GCCS-J, and include products from the Army's Common Hardware/Software-2 (CHS-2) contract. GCCS-A Block 4-Operational will be the next release and will coincide with GCCS-J Block 4.x , COE 4.7, and ABCS 6.4. GCCS-A Block 4 will coincide with GCCS-J Block V and Net-Centric Enterprise Services (NCES) Block I/II. Follow-on development of GCCS-A 4.1 and 4.2 releases maintains concurrency with GCCS-J and begins implementation of NET-CENTRIC Web Based services.					

ARMY RDT&E COST ANALYSIS (R3)											February 2007				
BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT			
7 - Operational system development			0303150A - WWMCCS/Global Command and Control System									C86			
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Base: Software Development	HYBRID	Lockheed Martin Corp, Springfield, VA						5899	1-2Q				5899		
Base: Software Development	HYBRID	Follow-on Contract TBD						11335	1-2Q				11335		
Base: Matrix	MIPR	CECOM, NJ & Ft Belvoir, VA						203	1-2Q				203		
Base: Technical Management	In House	PM Battle Command, Fort Monmouth, NJ						2485	1-4Q				2485		
Base: System Engineering	MIPR	Various						1798	2-4Q				1798		
GWOT: Software Development	HYBRID	Lockheed Martin Corp, Springfield, VA						2470	2-3Q				2470		
GWOT: Technical Management	In House	PM Battle Command, Fort Monmouth, NJ						190	1-4Q				190		
GWOT: System Engineering	MIPR	Lockheed Martin, Springfield, VA						1140	2-4Q				1140		
Subtotal:								25520					25520		
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Base: Support Contractors								526	2Q				526		
Subtotal:								526					526		

ARMY RDT&E COST ANALYSIS (R3)										February 2007				
BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0303150A - WWMCCS/Global Command and Control System								PROJECT C86		
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: Government	MIPR	Various						600	2Q				600	
Base: ATEC	MIPR	Various						400	1Q				400	
Subtotal:								1000					1000	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: Program Office Management	In-House	PM Ground Combat Command & Control, NJ						1590	1-4Q				1590	
Subtotal:								1590					1590	
Project Total Cost:								28636					28636	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY		PE NUMBER AND TITLE								PROJECT	
7 - Operational system development		0303158A - Joint Command and Control - Army								714	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost	
714 JOINT COMMAND AND CONTROL - ARMY			13515							13515	

A. Mission Description and Budget Item Justification: The Joint Requirements Oversight Council Memorandum 163-03 (JROCM 163-03 established a need for, and directed evolving the current Global Command and Control System (GCCS) Family of Systems into a single joint command and control (C2) architecture and capabilities-based implementation. This implementation will be based on Global Information Grid (GIG) Enterprise Services (GES) and consists of joint mission capability packages. The Net-Enabled Command Capability was formerly known as Joint Command and Control (JC2) and will provide a net-centric transformation of the Joint Force Commander's current C2 capabilities via a top-driven, capability-based approach that emphasizes jointness and is inclusive of our coalition partners.

FY 2008 GWOT funding will support the Army's development of Phase IV of the Defense Readiness Reporting System -Army (DRRS-A).

Note: The GWOT funding request reflected in this exhibit was inadvertently placed in this funding line and it will be corrected and appropriately placed in the Global Command and Control System - Army (373150) funding line for this effort. Phase IV requires additional development efforts for DRRS-A to maintain interoperability with DRRS once that new version is fielded in FY07. DRRS-A provides the critical unit readiness reporting capability that supports the Army's ability to plan and project forces into deployment rotation cycles. Phase IV adds key enhancements for security, medical information, installations, and expands the capability to plan forces and materiel in support of OIF/OEF.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 08 Base: System Engineering			579	
FY 08 Base: Software Development			5662	
FY 08 Base: Data Engineering			848	
FY 08 Base: Test and Evaluation			745	
FY 08 Base: Program Management			2581	
FY 08 GWOT: Software Development			1550	
FY 08 GWOT: Systems Engineering and Integration			1550	
Total			13515	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)					February 2007
BUDGET ACTIVITY 7 - Operational system development		PE NUMBER AND TITLE 0303158A - Joint Command and Control - Army			PROJECT 714
<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2007)			3958		
Current BES/President's Budget (FY 2008/2009)			13515		
Total Adjustments			9557		
Congressional program reductions					
Congressional rescissions					
Congressional increases			3100		
Reprogrammings					
SBIR/STTR Transfer					
Adjustments to Budget Years			6457		
Change Summary Explanation: Funding: FY 08 - Base funds increase to support NECC development, integration and test (+6457) and anticipated FY 08 GWOT Congressional increase (+3100).					
FY 08 Base 10,415 FY 08 GWOT 3,100 FY 08 Total 13,515					
<u>C. Other Program Funding Summary</u> Not applicable for this item.					
<u>D. Acquisition Strategy</u> Net-Enabled Command Capability (NECC) was formerly known as Joint Command and Control (JC2). Formal analysis was initiated to refine the NECC concept. The Assistant Secretary of Defense (ASD) approved NECC for entry into the Concept Refinement phase. The Assistant Secretary of Defense (ASD) directed the Deputy Assistant Secretary of Defense (DASD), C3, Space, and IT Programs to initiate and lead the completion of a successful NECC Capability Analysis of Alternatives (AoA) conducted in accordance with the approved guidance. The Analysis of Alternative (AoA) will be completed in two parts: Part I is the Capabilities Refinement Analysis, and Part II the Cost Effectiveness Analysis. During Phase I, the capabilities were refined to frame alternative implementations for Part II. These alternatives have been presented by National Information Infrastructure (NII), and were accepted for approval. The capabilities recommended to move forward for Part II are Situational Awareness, Force Projection and Force Mobilization. The cost effectiveness analysis satisfied the requirement to complete an Economic Analysis at Milestone A, which occurred in 2QFY06.					

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)		February 2007
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
7 - Operational system development	0303158A - Joint Command and Control - Army	714
<p>During the NECC Technology Development Phase, required acquisition documentation for milestone decisions will be prepared and/or updated, as necessary; the system architecture and technical baseline will be further defined, including test strategy development and lifecycle management considerations; collaboration/coordination will occur with Joint Forces Command (JFCOM), Training and Doctrine Command (TRADOC) and other organizations, as appropriate, to refine and finalize the Capability Development Document (CDD) to assure an achievable requirement; and in accordance with the Clinger/Cohen Act, an Analysis of Alternatives (AoA) will be performed with a formal update provided, as required.</p>		

ARMY RDT&E COST ANALYSIS (R3)											February 2007			
BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
7 - Operational system development			0303158A - Joint Command and Control - Army									714		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: System Engineering	Time and Materiels	Mitre, McLean, VA						579	1Q				579	
Base: Software Development	Government Matrix	C2D, Ft Monmouth, NJ						5662	1-4Q				5662	
GWOT: Software Development	MIPR (Time and Materials)	Gestalt, King of Prussia, PA						1550	2-3Q				1550	
GWOT: Systems Engineering and Integration	MIPR (Time and Materials)	Gestalt, King of Prussia, PA						695	2-3Q				695	
GWOT: Systems Engineering and Integration	In-House	PM, Battle Command, Fort Monmouth, NJ						315	1-2Q				315	
GWOT: Systems Engineering and Integration	HYBRID	Lockheed Martin, Springfield, VA						540	2-3Q				540	
Subtotal:								9341					9341	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: Data Engineering	Time and Materiels	Booz, Allen, Hamilton, Eatontown, NJ						848	2Q				848	
Subtotal:								848					848	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Base: Government (AEC)		Aberdeen Proving Ground, Aberdeen, MD						745	2Q				745	
Subtotal:								745					745	

ARMY RDT&E COST ANALYSIS (R3)											February 2007					
BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0303158A - Joint Command and Control - Army											PROJECT 714	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract		
Base: Program Management	Time and Materiels	Various						2581	1-2Q				2581			
Subtotal:								2581					2581			
Project Total Cost:								13515					13515			